8

Multi-Source Switch (Single-Source is default)

Functions in Multi-Source Mode:
On/Off
All Off
Source Select

Multi-Source

Single-Source

Speakers (8 Ohm)

3

Negative (–)

Positive (+)

4

A-KP2 REAR

4

3

A-KP2 Front

Volume Up/Down

On/Off

IR Confirmation & Status LED

IR Window

External Amplifier (optional) to speakers

5

Left & Right Volume Trim

A-BUS® Hub or A-BUS® Ready receiver

1

110 punchdown connectors on A-KP2

Wire order

7

BROWN
GREEN
ORANGE
BLUE

A-LRC1

6

J-Box

A-KP2

Decora® faceplate

STATUS Disabled

2

STATUS Enabled

Underside of A-KP2

2

CAT-5 (behind wall)

RJ45 Wall Plate (optional) located near Hub

1

RJ45 CAT-5 patch cable

1

GREEN
ORANGE
BLUE
ORANGE
BROWN

When wiring directly to Amplified Keypad, use T568A RJ45 wire configuration

INSTALLATION NOTES

- Before connecting the A-KP2:
  - Make sure that the A-PS power supply is not connected to the A-BUS® Hub or, if you are using an A-BUS® Ready receiver, that the receiver is off.
  - Make sure that the STATUS input on the A-BUS® Hub is not connected.
- The recommended maximum length for use with standard CAT-5 cable is 250 feet.
- Once all of the connections have been made, the A-PS power supply can be connected to the A-BUS® Hub or, if you are using an A-BUS® Ready receiver, the receiver may be turned on.
- Make any Volume Trim adjustments on the A-KP2 before installing it into the wall.

1 CAT-5 CONNECTIONS

A CAT-5 cable is used to connect the A-KP2 to a keypad output on an A-BUS® Hub or A-BUS® Ready receiver. For clean installations, use RJ45 CAT-5 patch cables to connect from the Hub to an RJ45 Wall Plate (optional), and then wire from the Wall Plate to the Amplified Control Module (see diagram). The Amplified Control Modules have 110 punchdown connectors for the 8 individual conductors of the CAT-5 cable (use a punchdown tool with a 110 blade to insert conductors).

NOTE: When wiring directly to an Amplified Control Module (i.e., not using an RJ45 Wall Plate) use T568A RJ45 wire configuration for connection to the hub.

2 STATUS

The STATUS jumper is located on the underside of the A-KP2. All A-BUS® components are shipped with the STATUS feature disabled. If you intend to use the STATUS feature with your A-BUS® system, you must enable the STATUS jumper on every Amplified Control Module as well as on the A-BUS® Hub.

3 SPEAKER CONNECTIONS

Connect speaker wires to the speaker output terminals on the A-KP2 as shown in the diagram. The A-KP2 is designed for one pair of 8 Ohm speakers.

4 EXTERNAL AMPLIFIER (OPTIONAL)

An external amplifier can be connected to the LINE OUT of the A-KP2 to provide more power in a large listening area, such as an outdoor patio. The LINE OUT can also be used to feed a powered subwoofer for extended bass response. This output is variably controlled by A-KP2 volume.

5 VOLUME TRIM

Two rotary trim potentiometers are located on the back of the A-KP2. These can be used to set the maximum allowable volume level and to adjust left/right balance. Use a Phillips-head screwdriver.

6 MOUNTING

Check all connections and test the system's operation before installing the A-KP2 into the wall. Using the included hardware, install the A-KP2 into a standard UL/CSA approved electrical J-Box as shown.

7 OPERATION

- Power On/Off source select and volume level can be controlled using the buttons on the A-KP2 or by using the optional A-LRC1 remote control. The A-KP2 will always reset to a low volume level when turned on.
- If you have installed IR Emitters in your A-BUS® system, then sources can be operated with their own remote (or a "universal" remote) by aiming it at the IR window on the A-KP2.
- When the A-KP2 receives infrared signals from a remote control, the LED indicator will flash red.
- If your are using the STATUS feature in your A-BUS® system, the LED indicator on the A-KP2 will illuminate green when your source equipment is on, even when the A-KP2 is off.

8 MULTI-SOURCE MODE SWITCH

The Multi-Source Mode Switch should be set to Single-Source when using the A-KP2 with Single-Source A-BUS® hubs. The Switch should be set to Multi-Source when using the A-KP2 with Multi-Source A-BUS® hubs.

9 MULTI-SOURCE OPERATION

Source Selection:
- Tapping the power button will allow you to toggle between multiple sources once the initial press for power "on" is performed. The top 4 LEDs of the volume indicator will show the source that is selected.

Zone (Keypad) Off:
- Press and hold the power button until the keypad turns off.

System (Hub) Off:
- When the keypad is off, press and hold the power button until the Green LED blinks Red and turns off.

Other Functions:
- Source selection and all other functions of the A-KP2 can be made using the A-LRC1 hand-held remote.

A-BUS®

Model A-KP2
with Multi-Source Select Capability
Amplified Keypad Module for A-BUS® System
Instruction Manual

A-BUS® SYSTEM OVERVIEW

The product you have just purchased is an integral part of the Russound® A-BUS® Multi-Room Audio System. It is a component which, when combined with other essential components and your source equipment (receiver, CD player, etc.), creates a versatile whole-house audio system that will fill your rooms with high-quality sound for years to come.

A-BUS® technology is a new, innovative method of providing high quality audio to remote locations with a single 8-conductor cable such as CAT-5. A-BUS® technology provides many advantages over other methods of audio distribution, including: simple, single CAT-5 wiring scheme; infrared control of system components; infrared control of the optional A-KP2 amplified keypad module; and system power status.

Every A-BUS® System is comprised of components from each of the following three areas.

1. **A-BUS® Amplified Control Modules**: The Module contains both the amplifier for the room's speakers as well as the control for those speakers. One Module should be used for each room you choose to control. The Russound® A-KP2 Amplified Keypad (with built-in IR receiver) and A-VC Amplified Volume Control are examples of A-BUS® Amplified Control Modules.

2. **A-BUS® Hubs**: All components of the A-BUS® system must be wired centrally to a Hub located near your source equipment. The Hub provides the connection for source equipment, volume controls, infrared emitters and power supply. The A-H484, A-H4, A-H4D, and A-H2 are examples of A-BUS® Hubs. The A-H484, A-H4, and A-H2 are surface-mount units. The A-H4D is an in-wall Decora® style unit.

3. **Power Supply**: The power supply plugs into the Hub. The Russound® A-PS 24VDC/2.5A unit is an example.

A-KP2 03/03

R Russound®
A/V DISTRIBUTION & CONTROL SYSTEMS
5 Forbes Rd. Newmarket, NH 03857, USA
☎ 603.659.5170 • Fax 603.659.5388
e-mail: tech@russound.com

Come visit us at:

www.russound.com

the right connection

A-KP2 OVERVIEW

The A-KP2 is an in-wall, A-BUS® Amplified Keypad with push-buttons for speaker volume level and power On/Off source select as well as an IR window for receiving remote control signals. The A-KP2 connects to A-BUS® Hubs or A-BUS® Ready receivers using CAT-5 wiring, and to loudspeakers using conventional speaker wire.

IMPORTANT – Before installation, review the manuals included with each component in your system. If you are unsure of any of the installation procedures described herein or elsewhere, consult a professional electronics installer.
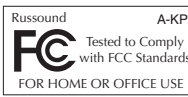
A-KP2 FEATURES

1) Power On/Off source select button
2) Volume Up/Down buttons
3) Built-in IR receiver
4) IR control of volume and On/Off source select via optional A-LRC1 remote
5) IR control of source components in an A-BUS® system that uses IR Emitters
6) LED indicator for IR confirmation and source component on/off status
7) Volume Trims for setting max. allowable level and L/R balance
8) Line Out for connecting to external amp or powered subwoofer
9) Decora® faceplate

A-KP2 SPECIFICATIONS

Output Impedance:	8 Ohm per channel (1 pair of speakers)
Input Impedance:	28k Ohm min., line input
Power Requirements:	+24VDC, 750mA
Status Input Reqs.:	+12VDC, 20mA
CAT-5 Connection:	110 Punchdown
Dimensions (in-wall):	1.75"W x 2.875"H x 1.75"D (45x73x45mm)
Weight:	6 oz. (170g)

C E

Conforms to UL 6500 Certified to CAN/CSA E65-94

Russound A-KP2
FC Tested to Comply with FCC Standards
FOR HOME OR OFFICE USE